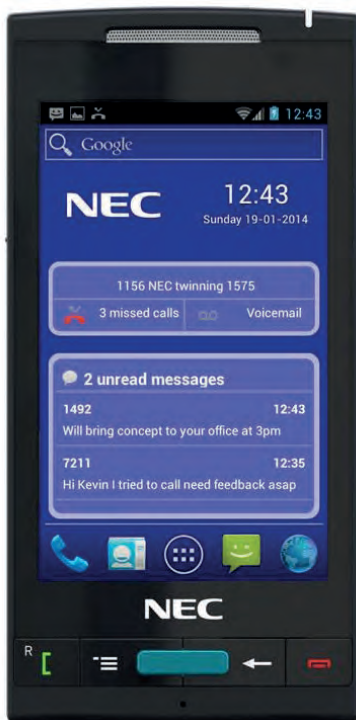**NEC**

DECT/WiFi handset G966
SmartDECT handset with Android and WiFi

The SmartDECT handset G966 is a sophisticated handset providing enterprise grade capabilities and proven DECT voice quality with the flexibility of android application support.

- Sophisticated DECT handset with rich call control features and applications tightly integrated with the NEC communication servers and PBX systems to contribute to the effectiveness of staff in various businesses, hospitality and healthcare
- Mobile Unified Communications features with central directory, presence look-up, messaging/alarming and localization facilitated by DECT
- Android and WiFi to support business applications with the option to tightly integrate the application with the specific features of the G966 through its API
- Front camera for video-supported unified communications
- Bluetooth LE (low energy) to connect to a variety of external devices
- Compatible with the rack/desktop charger of G266 and G566 handsets
- DECT compliance for high quality speech and security
- HD-Voice with G.722 codec in line with CAT-iq specifications

At a Glance

- Appealing design and Smartphone user experience
- Large 4" high resolution touchscreen plus essential keys for call handling
- Ideal handset for integration with business applications while on the move
- Supporting key vertical applications like messaging and alarming
- High definition audio in line with CAT-iq
- Secure provisioning over the air
- Dedicated keys, e.g. SOS

Features

Android applications	• Phone (DECT dialler) • Email and Calender (server synchronization e.g. Exchange) • Calculator, Music player, Sound recorder, Camera • Clock	• People (personal contacts) • Messaging • Browser • File explorer • Gallery
Call handling[1]	• Android model dial application • Caller list (incoming, outgoing, failed) • Directory access with photo display • CLI (name and number support) • Last number redial • Recall/hold (enquiry) • Automatic call answer	• Call reject option • Loudspeaker mode • Microphone Mute • HD-Voice and seamless handover • On-hook number preparation • Silent Charging
Design	• Smartphone design • Large high resolution touchscreen (4") • Android 4.0 (Ice Cream Sandwich) • Bluetooth LE • HAC Compliant	• Vibrator mode • Dust and water resistance: IP40 • RGB LED to provide four colour message indications • Antenna diversity • Android support for certified applications
Directory	• (IP) DECT Corporate Directory Application	• Personal contacts (People Application of Android) • Exchange server Corporate Directory

Display	• 16M Color touch display,
	  4" IPS TFT 480 x 800 pixels (384K)
	• Illuminate display on incoming calls, messages,
	  notifications
		• Date & time synchronized with PBX clock or internet
		• WideChar (UFT-16) character set
		• LCD backlit
		• Power saving by dimming display

Front Camera	• 2M Pixel CMOS camera • 65K colour depth (16 bits per pixel)	• Resolution 1600H x 1200V • Frame Rate: 15fps@UXGA(1600x1200), 30fps@SVGA(800x600)
Headset	• Wired Headset interface: 3.5 mm standard jack • Take call and release call on headset	• Bluetooth
Keys	• Recall (enquiry) key combined with on-hook key • Menu key • Distinctive home key • Back key	• Off-hook key • Three side keys, left (volume up, down, SOS) • One side key, right (on/standby) • White keypad backlight
Localization	• Supported languages: 14 • Triple frequency band	• Multiple (RF) power levels
Memory (internal)	• Total 580 MB • Can be expanded with optional memory card	• Approximately 500 MB available for Applications and user data

Memory card (optional)	• Storage of configuration and subscription data,
	  personal phone book and caller filter
	• Blocking of changes to the configuration settings
	• Easy subscription to another handset by transferring
	  the memory card
		• Easy (pre-)installation by programming the
		  memory card
		• Memory card type: micro SD card
		• Extending the internal memory for applications
		  and user data

Messaging	• (IP) DECT Messaging Application • DECT LRMS support • Message waiting (voicemail) • Urgency levels: Normal, urgent and emergency	• Message broadcast support • Set-up of voice call to call back number in message • Compatible with DMLS open interface
Mobility	• Supports 10 DECT subscriptions	• Automatic selection
Motion sensor	• 3-Axis Orientation and Motion Detection	• Tilt Orientation Detection for Portrait/Landscape
Sound/Audio	• Adjustable ringer volume • Loudspeaker mode/hands free • Trembler	• Adjustable earpiece/loudspeaker volume • Microphone mute • Silent ring support
Service/Maintenance	• Software upgrading via air interface (WiFi) • Software upgrading via USB interface	• Backup of local data via micro SD card • (Auto) provisioning via air interface (WiFi)
User data	• Internal memory for storage of configuration data, personal phone book, messages, caller log, etc.	• Optional micro SD card

User Interface	• Full Graphical User Interface with touchscreen
	• Configurable tricolour LED indicator, e.g., for missed
	  call and message waiting, low battery or (silent) charging
	• Selectable display backgrounds
		• Widgets for DECT subscription, missed calls,
		  voicemail indication and received messages
		• Android flexibility for ringing melodies, etc.

1) Features depend on the capabilities of the PBX and the DECT system used

Physical Characteristics

Dimensions	• Handset: 129x63x12 mm • Charger: 77x77x61mm mm • Charger Rack: 462x77x61 mm
Weight	• Handset: 161 g • Charger: 78 g • AC Adapter: 25 g
Protection	• Handset: IP40
Range	• Indoor: 50 m max [2] • Outdoor: 300 m max [2]
Power Supply and charger	• One desktop charger for G266, G566 and G966 • USB AC adapter • Input: 100-240 VAC 50-60Hz /150mA • Country variants for EU and US/UK/AU • Output (USB AC adapter): 5.0 VDC 1000mA (EU version) and 900 mA (US/UK/AU version) • Charging time: < 3 hours to charge battery to 90% when handset in charger or connected via USB
Battery and batterylife	• 3.7 VDC 1600 mAH Lithium-ion battery • Talk time > 8 hours (DECT mode only) • Talk time > 6 hours (WiFi mode only) • Standby > 72 hours (WiFi and BT are off, DECT is standby) • Off time > 336 hours
Colour	• G966 handset: Black • Desktop Charger (G266/G566 and G966): Black • Charger Rack: Black
Audible indicators	Selectable audible indicators: • Key click • Coverage warning • Charger warning • Battery low alarm • Confirmation tone
Status line indicators and selectors	Status line indicators in the display are: • Battery condition and charging indication • Time • DECT signal strength • WiFi signal strength • Messages • Notifications Selector bar with Wifi on/off, Bluetooth on/off, display illumination, sync on/off
LED indicators	Three of the following user selectable indicators can be assigned to the tricolour indicator LED: • Battery low • Missed call • Text or voice message
Supported menu languages	The handset supports 14 selectable languages: Danish, Dutch, English, French, German, Greek, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish

2) The radio coverage of DECT handsets depends on the environment and the presence of obstacles

Bluetooth

Bluetooth[3] version	• Classic • Low Energy (BLE 4.0)
Class	• Class 2, 2.5mW
Datarate	• V1.5, V2.0+EDR, V3+HS, V4.0
Profiles supported	• Health Device Profile (HDP) • Hands-Free Profile 1.5 (HFP) • Headset Profile (HSP) • Advanced Audio Distribution Profile (A2DP)

3) Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Handset package and accessories

G966 package contents	• G966 handset • Lithium-ion battery • Quick Reference Guide
G966 handset accessories	• Horizontal pouch for belt (handset needs to be removed when used) • Rugged holder with belt-clip (handset can be used while in holder) • Bumper • Memory card • Battery pack • Desktop charger with adapter • Charger rack (6 handsets) with AC adapter • Bluetooth headset • Wired headset

Environmental Conditions

Temperature range	Operating: 0°C to +40°C
	Transport: −25°C to +70°C
	Storage: −5°C to +45°C
Relative Humidity	Operating: 10 to 95%
	Transport: 10 to 100%
	Storage: 10 to 95%

DECT

Transmitted radio RF power	Less than 250 mW[4]
Average Radio RF power	10mW
Frequency band EMEA	1880 – 1900 MHz
Frequency band Thailand[5]	1900 – 1906 MHz
Frequency band Latin America[5]	1910 – 1930 MHz
Frequency band North America[5]	1920 – 1930 MHz
Frequency band Korea	1786 – 1792 MHz
Security	Automatic DECT encryption to secure calls
Protocol	Supports both GAP DECT, DECT 6.0 and CAT-iq
Range	EU: 50 m indoor 300 m outdoor USA: 40 m indoor 250 m outdoor
Antenna	Two antennas for diversity

4) The transmitted Radio RF power is according to local regulations
5) The G966 handset has a triple frequency band and can be used in the EMEA, American and Thai DECT frequency band.

Compatilibity

Platform Compatibility IP DECT	• Aspire, IPC500, SV8100 and SV9100 • 2000IPS, SV8300 and SV9300 • SV7000, SV8500 and SV9500 • iS3000 with DECT or IP DECT • SIP@Net • XN120, IPC100, SV8100 and SV9100 • Certified SIP enabled PBXs or SIP servers • Certified systems of Alcatel Lucent and Cisco

WiFi

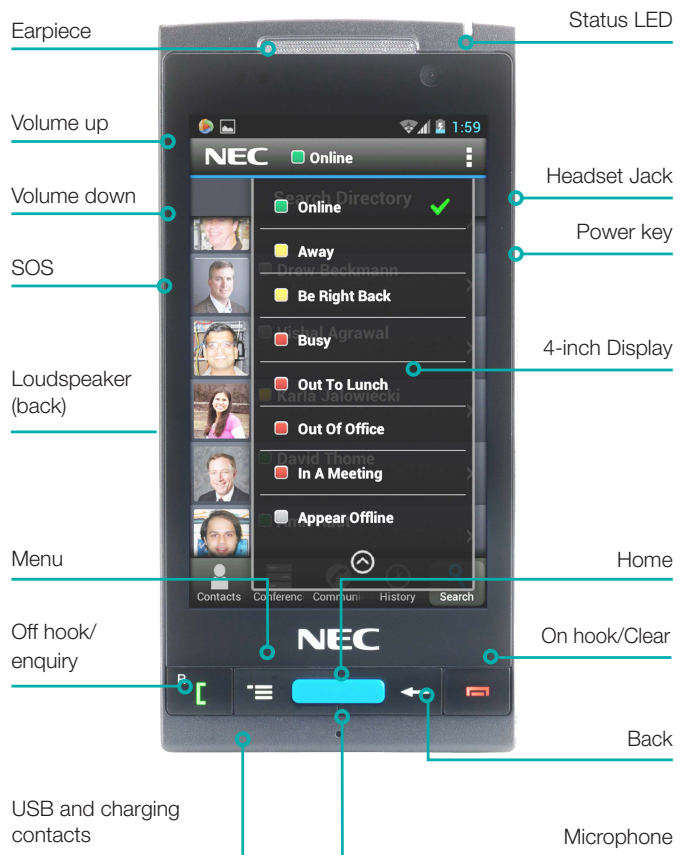| Standard compliancy	• 802.11a/b/g/n
Frequency band	• 2.4 GHz: 802.11 b/g/n • 5 GHz: 802.11 a and n
Data rates	• 802.11 a/g: up to 54 Mbps • 802.11 b: up to 11 Mbps • 802.11 n: up to 72 Mbps
Maximum transmit power	• +18 dBm @6 Mbps • +14 dBm @54 Mbps
Receiver sensitivity	• -92 dBm @6 Mbps • -75 dBm @54 Mbps
Encryption methods	• WEP, TKIP, AES, WAPI
Authentication methods	• 802.1x, WPA-PSK, WPA2-PSK, WPS
QoS prioritization	• WMM (based on 802.11e)
Antenna	• MIMO 1x1
Battery life enhancements	• U-APSD
Roaming enhancements	• PMK caching
Cisco Support	• Cisco CCX4 support • CCX Lite (aligned with Cisco)

Access Point

Standards

European Conformity	The G966 handset complies with the following harmonised standards:
EMC	• EN 301 489-1, EN 301 489-6, EN 301 489-17 • EN 300 440-1, EN 300 440-2
EMF	• EN 50360
RF DECT	• EN 301 406
RF WiFi	• EN 300 328, EN 301 893
RF Bluetooth	• EN 300 328
Safety	• EN 60950-1

Directives and Regulations

European Union	• R&TTE directive 1999/5/EC • EMC directive 2004/108/EC • LVD directive 2006/95/EC • ROHS directive 2011/65/EU • WEEE directive 2012/19/EU • ERP directive 2009/125/EC
USA and Canada	• FCC part 15C, 15D • RSS 210, RSS 213 • HAC/VC

Earpiece — Status LED — Volume up — Volume down — Headset Jack — Power key — SOS — 4-inch Display — Loudspeaker (back) — Menu — Home — Off hook/enquiry — On hook/Clear — Back — USB and charging contacts — Microphone

For further information please contact your local NEC representative or:

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